

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE <div style="text-align: center;">J</div>		PAGE OF PAGES <div style="display: flex; justify-content: space-between;"><div>1</div><div>8</div></div>	
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">0004</div>		3. EFFECTIVE DATE <div style="text-align: center;">07-Feb-2005</div>		4. REQUISITION/PURCHASE REQ. NO. <div style="text-align: center;">N4002705RC00306</div>		5. PROJECT NO.(If applicable)
6. ISSUED BY CODE COMMANDER SOUTHEAST REGIONAL MAINTENANCE CTR P.O. BOX 280057, MAYPORT NAVAL STATI JACKSONVILLE FL 32228-0057		N40027		7. ADMINISTERED BY (If other than item 6) CODE		
		See Item 6				
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X 9A. AMENDMENT OF SOLICITATION NO. N40027-05-R-0034		
				X 9B. DATED (SEE ITEM 11) 04-Jan-2005		
				10A. MOD. OF CONTRACT/ORDER NO.		
				10B. DATED (SEE ITEM 13)		
CODE		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.						
Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u> 1 </u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
12. ACCOUNTING AND APPROPRIATION DATA (If required)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)						
See attached Continuation Sheet for summary of changes.						
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
				TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)				BY _____ (Signature of Contracting Officer)		07-Feb-2005

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

The following have been added by full text:

1. This is Amendment 0004 to RFP N40027-05-R-0034.
2. SECTION B – SUPPLIES OR SERVICES AND PRICE/COSTS:
 - a. Paragraph B-1, CLIN 0001AA, DELETE Specification Items 167-11-001, 167-11-002, 167-11-003, 167-11-004, 167-11-005, 531-11-001, 531-31-001, 531-31-002, and 991-01-001. (Copy of ERRATA Number Six (6), attached hereto.)
 - b. Paragraph B-1, ADD the following CLINS to the work scope as Option Items. (Copy of ERRATA Number Six (6), attached hereto.):

CLIN 0011 Specification Item 167-11-001 (Option Item)
CLIN 0012 Specification Item 167-11-002 (Option Item)
CLIN 0013 Specification Item 167-11-003 (Option Item)
CLIN 0014 Specification Item 167-11-004 (Option Item)
CLIN 0015 Specification Item 167-11-005 (Option Item)
CLIN 0016 Specification Item 531-11-001 (Option Item)
CLIN 0017 Specification Item 531-31-001 (Option Item)
CLIN 0018 Specification Item 531-31-002 (Option Item)
CLIN 0019 Specification Item 991-01-001 (Option Item)

- c. Paragraph B-2-1, ADD CLIN 0011 through 0019 to COAR 90.

3. SECTION C – DESCRIPTION/SPECIFICATION/WORK STATEMENT:

- a. ADD the following OPTION ITEM paragraphs:
 - m) ITEM 0011 (Option) – 167-11-001
 - n) ITEM 0012 (Option) – 167-11-002
 - o) ITEM 0013 (Option) – 167-11-003
 - p) ITEM 0014 (Option) – 167-11-004
 - q) ITEM 0015 (Option) – 167-11-005
 - r) ITEM 0016 (Option) – 531-11-001
 - s) ITEM 0017 (Option) – 531-31-001
 - t) ITEM 0018 (Option) – 531-31-002
 - u) ITEM 0019 (Option) – 991-01-001

4. SECTION F – DELIVERIES OR PERFORMANCE: Paragraph F-3, Delivery/Redelivery Schedule, ADD Option Items 0011 through 0019, Date Option Exercised (NLT 14 May 2005).

5. SECTION L – INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS (RFP): a ADD the following paragraph numbered L-2-42:

“L-2-42. SPECIFICATION CHANGES. The contractor shall make additions, deletions, and/or clarifications to the specifications as indicated in ERRATA Number Six (6), attached hereto.”

6. REQUEST FOR SPECIFICATION CLARIFICATION:

- a) **QUESTION:** Prior agreements with the Contracting Officer excluded costs for undefinitized work of the Undefinitized Growth Work Items from the total evaluation of offers. Using undefined labor hours, the contractor is unable to accurately estimate the cost for providing the labor hours identified. Due to different pricing and rate structures between competitors, bidding unidentified labor hours places bidders at an unfair advantage or disadvantage. Current agreements between contractors and the Contracting Officer were developed to be in the best interest of both the contractors and the Supervisor.

Section M – Award does not identify which items listed in Section B are to be used in the total evaluation of offers. A fair evaluation of offers would be to identify a sum certain dollar amount for this undefined labor requirement or to eliminate undefined work from the evaluation as per previous solicitations.

Please identify how the undefined labor requirement will be evaluated so as to not present an unfair advantage or disadvantage.

ANSWER: See ERRATA Number Six (6). Per Section M, all items and Option Items are to be evaluated.

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 0007

The CLIN extended description has changed from (GLM) Requirements; accomplish (COAR 90-582) Specification Item 881-01-001 to (GLM) Requirements; accomplish (COAR 90-582) Specification Item 881-01-001 NTE \$500,000.00.

The cost constraint NTE has been added.

CLIN 0011 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011		1	Lump Sum		
OPTION	Watertight Closure FFP Replace (COAR 90-582) Specification Item 167-11-001				
FOB: Destination					
PURCHASE REQUEST NUMBER: N4002705RC00306					

NET AMT

CLIN 0012 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0012		1	Lump Sum		
OPTION	Watertight Hatch FFP Replace (COAR 90-582) Specification Item 167-11-002				
FOB: Destination					
PURCHASE REQUEST NUMBER: N4002705RC00306					

NET AMT

CLIN 0013 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0013		1	Lump Sum		
OPTION	Watertight Closure FFP Replace (COAR 90-582) Specification Item 167-11-003				
FOB: Destination PURCHASE REQUEST NUMBER: N4002705RC00306					

NET AMT

CLIN 0014 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0014		1	Lump Sum		
OPTION	Watertight Hatch FFP Replace (COAR 90-582) Specification Item 167-11-004				
FOB: Destination PURCHASE REQUEST NUMBER: N4002705RC00306					

NET AMT

CLIN 0015 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0015		1	Lump Sum		
OPTION	Watertight Scuttle FFP Replace (COAR 90-582) Specification Item 167-11-005				

FOB: Destination
PURCHASE REQUEST NUMBER: N4002705RC00306

NET AMT

CLIN 0016 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0016		1	Lump Sum		
OPTION	Distilling Plant Equipment FFP Repair (COAR 90-582) Specification Item 531-11-001				

FOB: Destination
PURCHASE REQUEST NUMBER: N4002705RC00306

NET AMT

CLIN 0017 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017		1	Lump Sum		
OPTION	Seawater Suction Cutout Valve and FFP Pipe Nozzle; Replace (COAR 90-582) Specification Item 531-31-001				

FOB: Destination
PURCHASE REQUEST NUMBER: N4002705RC00306

NET AMT

CLIN 0018 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0018		1	Lump Sum		
OPTION	Seachest Blow Out Connection Valve and FFP Pipe Nozzle; Replace (COAR 90-582) Specification Item 531-31-002				

FOB: Destination
PURCHASE REQUEST NUMBER: N4002705RC00306

NET AMT

CLIN 0019 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0019		1	Lump Sum		
OPTION	Staging FFP Provide (COAR 90-582) Specification Item 991-01-001				

FOB: Destination
PURCHASE REQUEST NUMBER: N4002705RC00306

NET AMT

(End of Summary Changes.)

SHIP: USS BOONE (FFG-28)

SPECIFICATION NUMBER: SSP-582-05

ERRATA NUMBER: 6

THIS PERMANENT CHANGE UPDATES THE SPECIFICATION BID PACKAGE.

THE FOLLOWING ITEMS ARE REPLACED:

167-11-001

167-11-002

167-11-003

167-11-004

167-11-005

531-11-001

531-31-001

531-31-002

588-11-004

881-01-001

991-01-001

DATED: 02 FEBRUARY 2005

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>167-11-001</u>
COAR:	<u>90-582</u>	PCN:	<u>EM04-A788</u>
LWT FILE NO:	<u>167-01</u>	CMP:	<u>NONE</u>
REVISED:	<u>23 MAR 2004</u>	PLANNER:	<u>STEINDLER</u> <u>MATHISEN</u> <u>MAYLE</u> <u>ROBERTS</u>

1. SCOPE:

(E6) 1.1 Title: Watertight Closure; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 Watertight Hatch (1-329-2), Frame 331, Centerline

1.3 Identification:

1.3.1 Quantity (One EA), Hatch, (1-329-2) Watertight, Raised 30 inch by 42 inch, Individually Dogged (Item 11 of 2.2)

2. REFERENCES:

2.1 Standard Items

2.2 167-5351046 Rev U, Hatch & Scuttle List

2.3 130-5351031 Rev F, Dk Platf & Fr-Bhd & Stan 329 1/2-369 1/2

2.4 805-1624073, Hatch, Watertight, Raised 30 inch by 48 inch, Individually Dogged

2.5 S2803-980208, Label Plates

2.6 S2803-980209, Label Plates

3. REQUIREMENTS:

3.1 Remove existing and install new watertight hatch in location listed in 1.2, using 2.2 through 2.4, for guidance and material requirements.

3.1.1 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column A, Lines One through 7.

3.1.2 Install new gaskets conforming to A-A-59588 Rubber Silicon, Class 3B, Grade 30, in lieu of MIL-PRF-900 for hatch listed in 1.3.

SHIP: USS BOONE (FFG-28)

3.2 Adjust the dogging assemblies, hinges, and pads for positive dogging action.

(V)(G) "CHALK TEST"

3.3 Accomplish a chalk test of the newly installed hatch. Chalk imprint shall be centered with 100 percent contact.

3.4 Accomplish the requirements of 009-25 of 2.1 for a water hose test of new hatch and deck plate in way of new hatch coaming. Allowable leakage: None.

3.5 Install new damage control classification and label plates in accordance with 2.5 and 2.6.

3.5.1 Door classification shall be in accordance with Ship's Damage Control Book.

3.6 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Ship's Damage Control Book is available in Log Room.

4.2 Known sources of watertight hatch are:

Specialty Marine and Industrial Supply
2057 Mayport Road
Atlantic Beach, FL 32233
(904) 247-3303

Railway Specialties
100 State Road
Bristol, PA 19007
(215) 788-9242

Commercial Products
1517 Gregg St.
Columbia, SC 29201
(803) 252-5044

Juniper Industries, Inc.
72-15 Metropolitan Avenue
Post Office Box 148
Middle Village, NY 11379
(718) 326-2546

5. GOVERNMENT FURNISHED MATERIAL (GFM):

SHIP: USS BOONE (FFG-28)

5.1 LLTM:

TOTAL QUANTITY <u>PROVIDED</u>	NAME OF <u>PART</u>	PIECE <u>NO.</u>	REF <u>NO.</u>	NATIONAL <u>STOCK NO.</u>	PARA <u>NO.</u>
1. One EA	RWTRTT Hatch (Steel)	11	2.2	4410639	3.1

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: USS BOONE (FFG-28)

ITEM NO: 167-11-002

COAR: 90-582

PCN: CS04-A044

CMP: NONE

PLANNER: STEINDLER
MATHISEN
MAYLE

1. SCOPE:

(E6) 1.1 Title: Watertight Hatch; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 02 Level, Frame 190, Portside

1.3 Identification:

1.3.1 Quantity (One EA), Hatch (02-190-2), Watertight, Raised,
Individually Dogged, 30 Inch by 48 Inch , Item No. 200 of 2.2

2. REFERENCES:

2.1 Standard Items

2.2 167-5351046 Rev U, Hatch and Scuttle List

2.3 805-1624073, Hatch W.T. Raised Individually Dogged 30" X 48" 5 & 15
P.S.I.-Arrangement

2.4 150-5604994 Rev E, Quality Assurance Requirement For Shipalt 146K

2.5 S2803-980208, Label Plates

2.6 S2803-980209, Label Plates

3. REQUIREMENTS:

3.1 Remove existing and install new watertight hatch and coaming/frame
listed in 1.3, in location listed in 1.2, in accordance with 2.2 and 2.3.

3.1.1 Accomplish the requirements of 009-12 of 2.1, including Table 2,
Column C, Lines One through 7.

3.1.2 Accomplish the Critical Weld Requirements of 2.4 for welds in
each location defined in 4.1.

(I)(G) "RADIOGRAPHIC / ULTRASONIC INSPECTION"

SHIP: USS BOONE (FFG-28)

3.1.2.1 Accomplish nondestructive testing in accordance with Lines 8 or 9.

(I)(G) "LIQUID PENETRATION INSPECTION"

3.1.2.2 Accomplish nondestructive testing in accordance with Line 10.

3.1.3 Adjust the dogs, hinges, and wedges for positive dogging action.

(V)(G) "CHALK TEST"

3.2 Accomplish a chalk test of watertight hatch listed in 1.3. Chalk imprint shall be centered with 100 percent contact.

3.3 Accomplish the requirements of 009-25 of 2.1 for air (interior) and water (exterior) hose test of watertight hatch listed in 1.3. Allowable leakage: None.

3.4 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

3.5 Install new damage control classification and label plates in accordance with 2.5 and 2.6.

(V)(G) "CLOSURE CLASSIFICATION"

3.5.1 Closure classification shall be in accordance with Ship's Damage Control Book.

4. NOTES:

4.1 Critical welds as defined by 2.4 are as follows:

Structure EXPOSED TO WEATHER from main deck to 02 level between frames 176 to 204.

Structure EXPOSED TO WEATHER from the 02 level and extending down 5 feet below 02 level between frames 204 to 212, 218 to 222, and 228 to 230.

Structure EXPOSED TO WEATHER between frames 204 to 230 if any one of the following applies: Within 2 feet of any transverse butt weld on 02 level; Any deck crack over a longitudinal stiffener; Any previously repaired crack; Any crack over 6 inches in length.

(This includes all interior attached weldments to the deckhouse, including tee beams, pipe hangers, cable supports and ANY OTHER ATTACHMENTS TO THE INSIDE OR OUTSIDE of the deckhouse in these areas) Per Class Advisory 06-95A.

4.2 Ship's Damage Control Book is available in Log Room.

SHIP: USS BOONE (FFG-28)

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

TOTAL						
QUANTITY	NAME OF	PIECE	REF	NATIONAL	PARA	
<u>PROVIDED</u>	<u>PART</u>	<u>NO.</u>	<u>NO.</u>	<u>STOCK NO.</u>	<u>NO.</u>	
1. One EA	RWTRTT Hatch (Alum)ASSY 2	200	2.2	00-554-4060	3.1	

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>167-11-003</u>
COAR:	<u>90-582</u>	PCN:	<u>SS01-0342</u> <u>SS01-0343</u>
LWT FILE NO:	<u>167-03</u>	CMP:	<u>NONE</u>
REVISED:	<u>12 OCT 2004</u>	PLANNER:	<u>STEINDLER</u> <u>MATHISEN</u> <u>MAYLE</u>

1. SCOPE:

(E6) 1.1 Title: Watertight Closure; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 Combined Supply Department Storeroom (3-328-0-A)

1.2.2 Passage (2-328-2-L)

1.3 Identification:

1.3.1 Quantity (One EA), Hatch (2-335-2), Watertight, Raised, 30 Inch by 48 Inch, with Scuttle (2-333-2), Watertight, Raised 18 Diameter, Item No. 3 of 2.2

1.3.2 Quantity (One EA), Hatch (2-330-2), Watertight, Flush, Individually Dogged, 36 Inch by 42 Inch, Item No. 4 of 2.2

2. REFERENCES:

2.1 Standard Items

2.2 167-5351046 Rev U, Hatch and Scuttle List

2.3 803-1401890 Rev G, Scuttle, WT, Flush Quick Acting, 18" Dia 35 PSI Arrangement

3. REQUIREMENTS:

3.1 Remove existing and install new eqch watertight closure listed in 1.3, in location listed in 1.2, in accordance with 2.2 and 2.3.

3.1.1 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column A, Lines One through 7.

3.1.2 Adjust the dogs, hinges, and wedges for positive dogging action.

SHIP: USS BOONE (FFG-28)

(V)(G) "CHALK TEST"

3.2 Accomplish a chalk test of watertight hatch and scuttle listed in 1.3. Chalk imprint shall be centered with 100 percent contact.

3.3 Accomplish the requirements of 009-25 of 2.1 for air hose test of watertight hatch and scuttle listed in 1.3. Allowable leakage: None.

3.4 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Known Sources for hatches are:

Specialty Marine & Industrial Supply
2057 Mayport Rd.
Atlantic Beach, Fl 32233
(904) 247-3303

Juniper Industries
72-15 Metropolitan Ave
Post Office box 148
Middle Village, NY 11379
(718) 326-2546

Rail Way Specialties
100 State Rd.
Bristol, Pa 19007
(215) 788-9242

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

	TOTAL					
	QUANTITY	NAME OF	PIECE	REF	NATIONAL	PARA
	<u>PROVIDED</u>	<u>PART</u>	<u>NO.</u>	<u>NO.</u>	<u>STOCK NO.</u>	<u>NO.</u>
1.	One EA	RWTRTT, Hatch with 18" QARWTRTT Scuttle	3	2.2	None	3.1
2.	One EA	FWTRTT, Hatch	4	2.2	None	3.1

5.2 PUSH MATERIAL:

1. None.

SHIP: USS BOONE (FFG-28)

5.3 KITTED MATERIAL:

1. None.

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>167-11-004</u>
COAR:	<u>90-582</u>	PCN:	<u>OC03-4430</u>
LWT FILE NO:	<u>167-03</u>	CMP:	<u>NONE</u>
REVISED:	<u>12 OCT 2004</u>	PLANNER:	<u>STEINDLER</u> <u>MATHISEN</u> <u>MAYLE</u>

1. SCOPE:

(E6) 1.1 Title: Watertight Hatch; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 Passage (2-40-2-L)

1.3 Identification:

1.3.1 Quantity (One EA), Missile Blast Hatch (1-58-2), 30" X 48" H-FWTRTT Hatch, with 21 Inch Diameter Scuttle, Item No. 136 of 2.2

2. REFERENCES:

2.1 Standard Items

2.2 167-5351046 Rev U, Hatch and Scuttle List

2.3 803-1623056, Scuttle, WT, Flush Quick Acting, 21" Dia 17 PSI Arrangement

2.4 803-1624109, Hatch WT Flush Individually Dogged 30" X 48" without Scuttle- 15 PSI Arr

3. REQUIREMENTS:

3.1 Remove existing and install new watertight hatch listed in 1.3, in location listed in 1.2, in accordance with 2.2 through 2.4.

3.1.1 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column A, Lines One through 7.

3.1.2 Adjust the dogs, hinges, and wedges for positive dogging action.

(V)(G) "CHALK TEST"

3.2 Accomplish a chalk test of watertight hatch and scuttle listed in 1.3. Chalk imprint shall be centered with 100 percent contact.

SHIP: USS BOONE (FFG-28)

3.3 Accomplish the requirements of 009-25 of 2.1 for air hose test of watertight hatch and scuttle listed in 1.3. Allowable leakage: None.

3.4 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Known Sources for Hatches are:

Specialty Marine & Industrial Supply
2057 Mayport Rd.
Atlantic Beach, Fl 32233
(904) 247-3303

Railway Specialties
100 State Rd.
Bristol, Pa 19007
(215) 788-9242

Commercial Products
1517 Gregg St.
Columbia, SC 29201
(803) 252-5044

Juniper Industries Inc.
72-15 Metropolitan Ave.
Post office Box 148
Middle Village, NY 11379
(718) 326-2546

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

TOTAL						
QUANTITY	NAME OF	PIECE	REF	NATIONAL	PARA	
<u>PROVIDED</u>	<u>PART</u>	<u>NO.</u>	<u>NO.</u>	<u>STOCK NO.</u>	<u>NO.</u>	
1. One EA	30" X 48" Hatch w/ 21" Scuttle	136	2.2	4413327	3.1	

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

SHIP: USS BOONE (FFG-28)

1. None.

SHIP: USS BOONE (FFG-28) ITEM NO: 167-11-005
COAR: 90-582 PCN: OC03-4431
LWT FILE NO: 167-03 CMP: NONE
REVISED: 12 OCT 2004 PLANNER: STEINDLER
MATHISEN
MAYLE
ROBERTS

1. SCOPE:

(E6) 1.1 Title: Watertight Scuttle; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 FT Access Trunk (2-92-2-T)

1.3 Identification:

1.3.1 Quantity (One EA), Missile Blast Hatch (1-92-2), 30" x 48",
Item No. 65 of 2.2

2. REFERENCES:

2.1 Standard Items

2.2 167-5351046 Rev U, Hatch and Scuttle List

2.3 803-1624109, Hatch, WT, Flush Individually Dogged, 30" x 48" without
Scuttle- 15 PSI, Arrangement

3. REQUIREMENTS:

3.1 Remove existing and install new watertight hatch listed in 1.3, in
location listed in 1.2, in accordance with 2.2 and 2.3.

3.1.1 Accomplish the requirements of 009-12 of 2.1, including Table 2,
Column A, Lines One through 7.

3.1.2 Adjust the dogs, hinges, and wedges for positive dogging action.

(V)(G) "CHALK TEST"

3.2 Accomplish a chalk test of watertight hatch listed in 1.3. Chalk
imprint shall be centered with 100 percent contact.

3.3 Accomplish the requirements of 009-25 of 2.1 for air hose test of
watertight scuttle listed in 1.3. Allowable leakage: None.

SHIP: USS BOONE (FFG-28)

3.4 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Known Sources for Watertight Hatches are:

Specialty Marine & Industrial Supply
2057 Mayport Rd.
Atlantic Beach, Fl 32233
(904) 247-3303

Railway Specialties
100 State Rd.
Bristol, Pa 19007
(215) 788-9242

Commercial Products
1517 Gregg St.
columbia, SC 29201
(803) 252-5044

Juniper Industries Inc.
72-15 Metropolitan Ave.
Post Office Box 148
Middle Village, NY 11379
(718) 326-2546

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

TOTAL						
QUANTITY	NAME OF	PIECE	REF	NATIONAL	PARA	
<u>PROVIDED</u>	<u>PART</u>	<u>NO.</u>	<u>NO.</u>	<u>STOCK NO.</u>	<u>NO.</u>	
1. One EA	H-FWTRTT Hatch, (steel)	65	2.2	005546895	3.1	

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>531-11-001</u>
COAR:	<u>90-582</u>	PCN:	<u>EM02-8317</u> <u>EM02-8318</u>
LWT FILE NO:	<u>531-31</u>	CMP:	<u>NONE</u>
REVISED:	<u>16 APR 2004</u>	PLANNER:	<u>DANIEL</u> <u>MATHISEN</u> <u>MAYLE</u> <u>ROBERTS</u>

1. SCOPE:

(E6) 1.1 Title: Distilling Plant Equipment; repair (OPTION ITEM)

1.2 Location of Work:

1.2.1 Auxiliary Machinery Room Number 3 (5-292-0-E)

1.3 Identification:

1.3.1 Quantity (2 EA), Number One and 2 Distilling Plant Unit, 4000 GPD, Model S167ST, Type submerged Tube, Mfr: Aqua-Chem Inc., APL 080030086E

2. REFERENCES:

2.1 Standard Items

2.2 0958-LP-032-7010, Submerged Tube Distilling Plant, Model S167ST, Installation, Operation, Maintenance and Repair Instructions with Parts List

2.3 432-7923, Shell, Evaporator

2.4 S9531-BH-MMI-010/Heat Exchanger, Repair of Heat Exchangers, Coolers, and Distilling Plants

2.5 DM 98-189, SJAX, Installation of Backing Plates on Evaporator Shell Openings

3. REQUIREMENTS:

3.1 Remove the insulation and lagging from the shell and water box assemblies on the equipment listed in 1.3.1.

(V)(G) "HYDROSTATIC TEST"

SHIP: USS BOONE (FFG-28)

3.2 Accomplish a hydrostatic test of each distilling plant at 10 PSIG in accordance with Paragraphs 8-42 and 8-44 of 2.2.

3.3 Remove the access covers, condenser, demister, waste heat bundle, suppression baffle, and inspection opening on each evaporator plant, using 2.2 for guidance.

3.3.1 Visually inspect internal and external surfaces of the evaporator shell for cracks, deterioration, and defects, using 2.2 through 2.4 for guidance.

3.3.1.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.3.1 to the SUPERVISOR.

3.4 Deliver the condenser, waste heat bundle, and distillate cooler to a qualified facility for cleaning.

3.4.1 Accomplish the requirements of 009-09 of 2.1 for cleaning heat exchangers using "RYDLYME" or equal cleaning solution in accordance with manufacturer's specifications, using 2.2 and 2.4 for guidance.

(V)(G) "VISUAL INSPECTION"

3.4.1.1 Accomplish a visual inspection of the heat exchangers to verify complete removal of scale and deposits.

3.5 Repair each evaporator shell as follows:

(E4) 3.5.1 DELETED

3.5.2 Install 4 square feet of doubler plating (total of 8) in way of each evaporator shell plating on each evaporator shell as designated by the SUPERVISOR.

3.5.2.1 Size and configuration of the new doubler plates shall be determined by the area and location of the defects identified by inspection reports.

3.5.2.2 New shell doubler plates shall be 90/10 copper nickel plate conforming to Mil-C-15726.

3.5.2.3 Remove and install 2 each shell stiffeners (total of 4) on each evaporator shell to facilitate doubler plate installations.

3.5.2.4 Accomplish the requirements of 009-12 of 2.1, including Table One, Column D, Lines One through 10.

3.5.3 Accomplish approximately one square foot (total of 2 square feet) of clad welding in way of evaporator shell plating on each evaporator shell as designated by the SUPERVISOR.

SHIP: USS BOONE (FFG-28)

3.5.3.1 Fair in weldment to achieve a smooth flat finish.

3.5.3.2 Accomplish the requirements of 009-12 of 2.1, including Table One, Column D, Lines One through 10.

(E4) 3.5.4 Provide 6 mandays of labor and 500 dollars of material to accomplish additional repairs, when directed by the SUPERVISOR. Total cost greater or less than above manday and dollar amounts when authorized will be the subject of an equitable adjustment.

3.6 Accomplish the installation of backing plates on the waste heat tube bundle flange on each evaporator shell opening in accordance with 2.5.

3.6.1 Accomplish the requirements of 009-12 of 2.1, including Table One, Column D, Lines One through 10.

3.7 Install the 3 each heat exchangers in way of the evaporator shells, with new gaskets in accordance with 2.2. Do not install waterboxes at this time.

(V)(G) "HYDROSTATIC TEST"

3.7.1 Accomplish a hydrostatic test of the tube bundles at 10 PSIG in accordance with Paragraph 8-45 of 2.2. Allowable leakage: none.

3.7.2 Roll leaking tubes in accordance with Paragraph 6-17 of 2.2.

3.7.3 Remove existing, fit, and install new tubes, up to 10 percent of total number of tubes in each tube bundle, found to be damaged or leaking in accordance with Paragraph 6-22 of 2.2.

3.7.4 Accomplish hydrostatic testing in accordance with 3.7.1. Allowable leakage: none.

3.8 Assemble each evaporator using new gaskets in accordance with 2.2.

3.8.1 Remove existing, fit, and install new demister, Piece Number 13, Figure 3-1 of 2.2 in accordance with Paragraph 6-29 of 2.2.

3.8.2 Fit and install new zinc anodes, using 2.2 for guidance.

3.8.3 Remove existing and install new salt water piping joint gaskets and fasteners. Gaskets shall conform to UNAFLEX, Type 96 or 87. Type 94 or Type 95, AMS-G-6855 Grade I, Class 80, or MIL-G-22050, Grade 2 or 3, are to be used for suction sea chest steam out connections.

(V)(G) "HYDROSTATIC TEST"

3.8.4 Accomplish a hydrostatic test of each distilling plant at 10 PSIG in accordance with Paragraphs 8-42 and 8-44 of 2.2. Allowable leakage: None

SHIP: USS BOONE (FFG-28)

3.9 Accomplish the requirements of 009-11 of 2.1, to install new insulation, lagging, and reusable covers on new and disturbed surfaces.

3.10 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

(V)(G) "OPERATIONAL TEST"

3.11 Accomplish an operational test of the distilling plant at normal operating temperatures and pressure, using Chapter 2 of 2.2 for guidance.

3.11.1 Measure and record operational readings every 30 minutes.

3.11.2 Inspect new and disturbed joints for tightness. Allowable leakage: None.

3.11.3 Submit one legible copy, in hard copy or electronic media, of completed test data to the SUPERVISOR.

4. NOTES:

4.1 None.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>531-31-001</u>
COAR:	<u>90-582</u>	PCN:	<u>EA01-0048</u> <u>EA01-0049</u>
LWT FILE NO:	<u>531-05</u>	CMP:	<u>NONE</u>
REVISED:	<u>05 APR 2004</u>	PLANNER:	<u>KANAPAU</u> <u>MATHISEN</u> <u>ROBERTS</u>

1. SCOPE:

(E6) 1.1 Title: Seawater Suction Cutout Valve and Pipe Nozzle; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 Auxiliary Machinery Room Number 3 (5-292-0-E)

1.3 Identification:

1.3.1 Quantity (2 EA), Gate Valve, 3 Inch, Flanged, Bronze, 100 PSI, Mfr. Milwaukee Valve Co. Inc. or Equal, Seachest Suction Cutout Valve Numbers (DPF-V1A) and (DPF-V1B) For Distilling Plant Feed Pumps Numbers One and Two, Part Number V-042 On 2.2 and 2.3, APL Number 882046524

1.3.2 Quantity (2 EA), Seachest Pipe Nozzle, 3 Inch IPS, For Distilling Unit Seawater Suction Valves listed in 1.3.1, Part Number F5 and F20 in Detail 9B-4A On 2.4

1.3.3 Quantity (2 EA), Waster Sleeve, 3 Inch IPS, Carbon Steel, For Distilling Unit Seawater Suction Valves Listed in 1.3.1, Part Number F-023 on 2.2 and 2.3

2. REFERENCES:

2.1 Standard Items

2.2 T9074-AS-GIB-010/271, Requirements For Nondestructive Testing Methods

2.3 S9086-RK-STM-010/CH-505, Chapter 505, Piping Systems

2.4 531-5351539 Rev N, Distilling Plant & GTRB Water Wash System Piping Fr 250-328

2.5 531-5351539PL Rev K, Distilling Plant & GTRB Water Wash System Piping (Parts List)

SHIP: USS BOONE (FFG-28)

2.6 163-5351044 Rev E, Suction Sea Chests

2.7 MIL-STD-22, Welded Joint Design

2.8 505-5351838 Rev H, Sheets 1A -1C and 18A -18C, Machinery & Piping
Construction Standards

3. REQUIREMENTS:

(I)(G) "PRELIMINARY INSPECTION/ULTRASONIC TEST"

3.1 Accomplish ultrasonic tests on existing seachest nozzles listed in 1.3.2 and 6 inches of surrounding seachest shell plate, in accordance with 2.2 and 2.3, using 2.4 through 2.6 for guidance.

3.1.1 Total of 16 readings shall be taken on the seachest nozzle, using Paragraph 505-1.4.4.3.1 of 2.3 for guidance.

3.1.2 Total of 16 readings shall be taken on the seachest shell plating adjacent to each nozzle, at locations equal distant apart.

3.1.3 Map locations where UT readings are taken and submit to the SUPERVISOR for future reference.

3.1.4 Minimum thickness of existing nozzles and shell plate shall not be reduced by more than 40 percent of their original thickness.

3.1.5 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.1 to the SUPERVISOR.

3.2 Remove existing and install new distilling unit pumps one and 2 seawater suction piping nozzles, waster pieces, and cutout valves listed in 1.3, in accordance with 2.4 through 2.8.

3.2.1 Seawater suction piping nozzles shall not be replaced until authorized by the SUPERVISOR. Nozzles shall not be replaced unless the minimum wall thickness exceeds the minimum requirements identified in 3.1. Wall thickness shall not be reduced by more than 40 percent of its original thickness.

3.2.1.1 Joint design for welding new nozzles shall be P-66 of 2.7.

3.2.2 Remove existing and install new 12 Inch X 12 inch insert in seachest plating, with 3 inch radius corners, identified as below minimum thickness in 3.1. Install 1-1/2 inch wide X 1/4 inch thick backing bars inside of the seachest when installing new plate. Seal weld all around.

3.2.2.1 New plating material shall be 20.4 pound ASTM A-36 carbon steel.

SHIP: USS BOONE (FFG-28)

3.2.2.2 Joint design for welding in new seachest plating shall be B1V.5 of 2.7.

3.2.3 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column A, Lines One through 7.

(I)(G) "MAGNETIC PARTICLE INSPECTION"

3.2.3.1 Accomplish nondestructive testing in accordance with Line 11.

3.2.4 Restore piping flange mating surfaces exposed by disassembly of piping system. Repair by removing high spots, burrs, abrasions, and foreign matter, where removal can be accomplished by hand tools. Take precautions to maintain phonographic finish on flanges that have it.

3.2.5 Accomplish the requirements of 009-12 of 2.1, including Table One, Column A, Lines One through 10.

(I)(G) "MAGNETIC PARTICLE INSPECTION"

3.2.5.1 Accomplish nondestructive testing in accordance with Line 14.

3.2.6 Remove existing and install new salt water piping joint gaskets and fasteners. Gaskets shall conform to UNAFLEX, Type 96 or 87. Type 94 or Type 95, AMS-G-6855 Grade I, Class 80, or MIL-G-22050, Grade 2 or 3, are to be used for suction sea chest steam out connections. Fasteners shall conform to MIL-DTL-1222, Type I, Grade 400 or 405, Class A or B, QQ-N-281, nickel-copper alloy.

3.2.7 Accomplish the requirements of 009-71 of 2.1 for new and disturbed piping.

3.2.7.1 Test pressure shall be 75 PSIG, using clean, fresh water, when the hydrostatic test option is selected.

3.2.8 Accomplish the requirements of 009-32 of 2.1, including Table One, Line(s) 22, 23, 24, 25, 26, or 27, for new and disturbed areas of each seachest.

3.3 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Deviation from specification required in accordance with response to Design Service Request Number 05-320-9972.

4.2 Cofferdam shall be required to accomplish this Work Item.

SHIP: USS BOONE (FFG-28)

5. GOVERNMENT FURNISHED MATERIAL(GFM) :

5.1 LLTM :

1. None.

5.2 PUSH MATERIAL :

1. None.

5.3 KITTED MATERIAL :

1. None.

SHIP: USS BOONE (FFG-28)

ITEM NO: 531-31-002

COAR: 90-582

PCN: EA01-0050

CMP: NONE

PLANNER: KANAPAUX
MATHISEN

1. SCOPE:

(E6) 1.1 Title: Seachest Blow Out Connection Valve and Pipe Nozzle; replace (OPTION ITEM)

1.2 Location of Work:

1.2.1 Auxiliary Machinery Room Number 3 (5-292-0-E)

1.3 Identification:

1.3.1 Quantity (One EA), Stop Check Valve, 1-1/2 Inch, Flanged, Bronze, 100 PSI, Mfr. Milwaukee Valve Co. Inc. or Equal, Seachest Blow Out Connection, Valve Number (5-296-2), For Distilling Plant Feed Pumps Numbers One and Two, Part Number V-016 On 2.4 and 2.5, APL Number 882032966

1.3.2 Quantity (One EA), Seachest Blow Out Connection Pipe Nozzle, 1-1/2 Inch IPS, For Distilling Unit Seachest Blow Out Connection Valve listed in 1.3.1, Part Number F-018, in Detail 4F-2E, on 2.6

1.3.3 Quantity (One EA), Waster Sleeve, 1-1/2 Inch IPS, Carbon Steel, For Distilling Unit Seachest Blow Out Connection Valve Listed in 1.3.1, Part Number F-033 on 2.4 and 2.5

2. REFERENCES:

2.1 Standard Items

2.2 T9074-AS-GIB-010/271, Requirements For Nondestructive Testing Methods

2.3 S9086-RK-STM-010/CH-505, Chapter 505, Piping Systems

2.4 531-5351539 Rev N, Distilling Plant & GTRB Water Wash System Piping Fr 250-328

2.5 531-5351539PL Rev K, Distilling Plant & GTRB Water Wash System Piping (Parts List)

2.6 163-5351044 Rev E, Suction Sea Chests

SHIP: USS BOONE (FFG-28)

2.7 MIL-STD-22, Welded Joint Design

2.8 505-5351838 Rev H, Sheets 1A -1C and 18A -18C, Machinery & Piping
Construction Standards

3. REQUIREMENTS:

(I)(G) "PRELIMINARY INSPECTION/ULTRASONIC TEST"

3.1 Accomplish ultrasonic tests on existing seachest nozzle listed in 1.3.2 and 6 inches of surrounding seachest shell plate, in accordance with 2.2 and 2.3, using 2.4 through 2.6 for guidance.

3.1.1 Total of 12 readings shall be taken on the seachest nozzle, using Paragraph 505-1.4.4.3.1 of 2.3 for guidance.

3.1.2 Total of 12 readings shall be taken on the seachest shell plating adjacent to the nozzle, at locations equal distant apart.

3.1.3 Map locations where UT readings are taken and submit to the SUPERVISOR for future reference.

3.1.4 Minimum thickness of existing nozzles and shell plate shall not be reduced by more than 40 percent of their original thickness.

3.1.5 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.1 to the SUPERVISOR.

3.2 Remove existing and install new seachest blow out piping nozzle, waster piece, and stop check valve listed in 1.3, in accordance with 2.4 through 2.8.

3.2.1 Seachest blow out connection nozzle shall not be replaced until authorized by the SUPERVISOR. Nozzle shall not be replaced unless the minimum wall thickness exceeds the minimum requirements identified in 3.1. Wall thickness shall not be reduced by more than 40 percent of its original thickness.

3.2.1.1 Joint design for welding new nozzles shall be P-66 of 2.7.

3.2.2 Remove existing and install new 12 Inch X 12 inch insert in seachest plating, with 3 inch radius corners, identified as below minimum thickness in 3.1, when directed by the SUPERVISOR. Install 1-1/2 inch wide X 1/4 inch thick backing bars inside of the seachest when installing new plate. Seal weld all around.

3.2.2.1 New plating material shall be 20.4 pound ASTM A-36 carbon steel.

SHIP: USS BOONE (FFG-28)

3.2.2.2 Joint design for welding in new seachest plating shall be B1V.5 of 2.7.

3.2.3 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column A, Lines One through 7.

(I)(G) "MAGNETIC PARTICLE INSPECTION"

3.2.3.1 Accomplish nondestructive testing in accordance with Line 11.

3.2.4 Restore piping flange mating surfaces exposed by disassembly of piping system. Repair by removing high spots, burrs, abrasions, and foreign matter, where removal can be accomplished by hand tools. Take precautions to maintain phonographic finish on flanges that have it.

3.2.5 Accomplish the requirements of 009-12 of 2.1, including Table One, Column A, Lines One through 10.

(I)(G) "MAGNETIC PARTICLE INSPECTION"

3.2.5.1 Accomplish nondestructive testing in accordance with Line 14.

3.2.6 Remove existing and install new salt water piping joint gaskets and fasteners. Gaskets shall conform to UNAFLEX, Type 96 or 87. Type 94 or Type 95, AMS-G-6855 Grade I, Class 80, or MIL-G-22050, Grade 2 or 3, are to be used for suction sea chest steam out connections. Fasteners shall conform to MIL-DTL-1222, Type I, Grade 400 or 405, Class A or B, QQ-N-281, nickel-copper alloy.

3.2.7 Accomplish the requirements of 009-71 of 2.1 for new and disturbed piping.

3.2.7.1 Test pressure shall be 75 PSIG, using clean, fresh water, when the hydrostatic test option is selected.

3.2.8 Accomplish the requirements of 009-32 of 2.1, including Table One, Line(s) 22, 23, 24, 25, 26, or 27, for new and disturbed areas of each seachest.

3.3 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Deviation from specification required in accordance with response to Design Service Request Number 05-320-9972.

4.2 Cofferdam shall be required to accomplish this Work Item.

SHIP: USS BOONE (FFG-28)

5. GOVERNMENT FURNISHED MATERIAL (GFM) :

5.1 LLTM :

1. None.

5.2 PUSH MATERIAL :

1. None.

5.3 KITTED MATERIAL :

1. None.

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>588-11-004</u>
COAR:	<u>16-582</u>	PCN:	<u>EM02-Y014</u> <u>OC03-Z012</u>
LWT FILE NO:	<u>588-03</u>	CMP:	<u>NONE</u>
REVISED:	<u>06 JUL 2004</u>	PLANNER:	<u>STEINDLER</u>

1. SCOPE:

1.1 Title: RAST Track System; clean and preserve

1.2 Location of Work:

1.2.1 Main Deck, Frame 288 to 392, Port and Starboard

1.3 Identification:

1.3.1 Not Applicable

2. REFERENCES:

2.1 Standard Items

2.2 588-5845940 Rev A, Rast Track Arrangement & Installation

2.3 588-5845952 Rev A, Installation Rast Track Side Cover Plates

2.4 AD-700A1-OMI-000, Recovery Assist, Securing and Traversing

3. REQUIREMENTS:

(V)(G) "TRACK SLOT WIDTH"

3.1 Accomplish an inspection of the RAST track slot width using GO-NOGO gage. Measure RAST plate to RAST plate butt clearances.

3.1.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.1 to the SUPERVISOR.

3.2 Remove the existing RAST track cover plates and portable side cover plates, using 2.2 through 2.4 for guidance. Retain fasteners (one inch dia. and 3/4 inch dia. bolts) for installation.

3.2.1 Remark existing RAST plates not legible in accordance with General Notes No. 10 and 11 of 2.2.

3.2.2 Verify RAST trough drains are clear of debris.

SHIP: USS BOONE (FFG-28)

(E6) 3.3 Accomplish the requirements of 009-32 of 2.1, including Table 2, Line 3, for RAST track cover plates (steel), and Table 2, Line 20, for RAST track cover plates (aluminum).

(E6) 3.3.1 DELETED

(E6) 3.3.2 DELETED

(E6) 3.3.3 DELETED

3.3.4 Remove, store, and provide protection for rapid securing device, RA cable, TGW cable, electrical cable, and those surfaces not receiving preservation system from damage.

(E6) 3.3.5 DELETED

3.4 Clean RAST trough drains free of internal foreign matter, utilizing mechanical or hydroblast method.

(V)(G) "UNOBSTRUCTED FLOW"

3.4.1 Allow water to pass through the RAST trough drains for a minimum of 15 minutes to verify unobstructed flow.

(V)(G) "CLEANLINESS AND COMPLETION OF WORK"

(E6) 3.5 Reinstall RAST track cover plates using fasteners retained in 3.3, in accordance with 2.4.

3.5.1 Apply dielectric barrier tape conforming to MIL-I-24391 between post and blocks, using 2.2 and 2.3 for guidance.

3.5.2 Plug weld, drill out, ream, and tap 50 bolt holes in way of broken bolts as directed by the SUPERVISOR.

3.5.3 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column A, Lines One through 7.

(E6) 3.5.4 Accomplish a visual inspection of bolts removed in 3.2, chase threads on existing fasteners for reuse. Tap threads on remaining bolts holes.

(E6) 3.5.4.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.5.4 to the SUPERVISOR.

(I)(G) "TORQUE FASTENERS"

3.5.5 Torque RAST track plate fasteners using the following values: one inch dia. bolts 330 ft/lbs. and 3/4 inch bolts 140 ft/lbs.

3.5.5.1 Install fasteners using anti-seize compound conforming

SHIP: USS BOONE (FFG-28)

to A-A-59313.

3.5.6 Reinstall side covers plates (aluminum) using new fasteners in accordance with 2.2.

3.5.6.1 Plug weld, drill out, ream, and countersink 10 side cover plate mounting holes as designated by the SUPERVISOR.

3.5.6.2 Accomplish the requirements of 009-12 of 2.1 including Table 2, Column C, Lines One through 7.

3.5.6.3 Chase threads on existing fasteners found suitable for reuse. Tap threads on remaining bolts holes.

3.5.6.4 Install fasteners using anti-seize compound conforming to A-A-59313.

(V)(G) "TRACK SLOT WIDTH"

3.5.7 Accomplish an inspection of the track slot width using GO-NOGO gage.

3.5.7.1 Submit one legible copy, in hard copy or electronic media, of a report listing results of the requirements of 3.5.7 to the SUPERVISOR.

3.6 Reinstall port and starboard rapid securing device, RA cable, TGW cable, and electrical cable in accordance with Paragraphs 6-72, 6-196A, 6-196B and 6-208 of 2.4.

3.6.1 Remove existing and install new RAST Cable Bellmouth and Sleeve.

3.6.2 Clean cables free of foreign matter and lubricate with Prelube 19 or equal.

3.6.3 Lubricate each sheave assembly using general purpose grease conforming to MIL-PRF-24139 or MIL-PRF-81322, using 2.4 for guidance.

3.7 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 Ship's Force will provide GO-NOGO gage.

4.2 Recertification of RAST track and helo deck must be accomplished by ASIR Field Office Representative (local rep).

4.3 SUPERVISOR shall provide completed test results to the Port Engineer.

SHIP: USS BOONE (FFG-28)

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP: USS BOONE (FFG-28)

ITEM NO: 881-01-001

COAR: 90-582

PCN: PE01-0023

CMP: NONE

PLANNER: MATHISEN

1. SCOPE:

1.1 Title: Undefined Growth Labor and Material (GLM) Requirements; accomplish (OPTION ITEM)

1.2 Location of Work:

1.2.1 Throughout the Ship

1.2.2 SRA GROWTH POOL (VARIOUS)

1.3 Identification:

1.3.1 Not Applicable

1.3.2 SRA GROWTH POOL ,NA, APL: N/A

2. REFERENCES:

2.1 None.

3. REQUIREMENTS:

(E6) 3.1 Provide all labor and material to accomplish within scope growth work, when directed by the SUPERVISOR. The GLM requirements are in addition to any mandays and material reserved by other Work Items and shall not be used to accomplish work outside the scope of this contract. GLM requirements shall be related to Work Items specified in this contract. GLM requirements shall be processed by Request for Contract Changes (RCCs). Authorized to proceed with the GLM work requirements will be provided by the Government Administrative Contracting Officer(ACO) only after the RCC work has been priced and approved the ACO.

(E6) 3.1.1 The GLM shall not exceed 500,000 dollars and will be the subject of an equitable adjustment.

(E6) 3.1.2 Submit one legible copy, in hard copy or electronic media, of a weekly report to document expenditures to the SUPERVISOR.

4. NOTES:

SHIP: USS BOONE (FFG-28)

4.1 None.

5. GOVERNMENT FURNISHED MATERIAL (GFM) :

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.

SHIP:	<u>USS BOONE (FFG-28)</u>	ITEM NO:	<u>991-01-001</u>
COAR:	<u>90-582</u>	PCN:	<u>EXSY-S146</u>
LWT FILE NO:	<u>991-01</u>	CMP:	<u>NONE</u>
REVISED:	<u>20 APR 2004</u>	PLANNER:	<u>CURTIS</u> <u>MATHISEN</u> <u>MAYLE</u>

1. SCOPE:

(E6) 1.1 Title: Staging; provide (OPTION ITEM)

1.2 Location of Work:

1.2.1 Main Mast, 02 Level to uppermost point above base-line, centerline of ship, Frames 162 to 190, including platforms and yardarms

1.2.2 Foremast, 02 Level to uppermost point above base-line, centerline of ship, Frames 138 to 150, including platforms and yardarms

1.2.3 Helicopter Hangar No. One (1-278-1-Q)

1.2.4 Helicopter Hangar No. 2 (1-278-2-Q)

1.3 Identification:

1.3.1 Not Applicable

2. REFERENCES:

2.1 Standard Items

2.2 171-5351048 Rev H, Foremast, Service Platf and Fdn for AN/SPS-49 Radar Ant

2.3 171-5351049 Rev W, Main Mast and Service Platforms

3. REQUIREMENTS:

3.1 Install and maintain steel tube and clamp staging for Ship's Force use within the first 5 days of contract performance period for each area listed in 1.2.1 and 1.2.2, for the entire contract period.

3.1.1 Staging shall be installed so that personnel can walk around the entire mast, yardarms, and mast platforms at each staging level. Staging levels

SHIP: USS BOONE (FFG-28)

shall be installed approximately four feet under the yardarms and mast platforms.

3.2 Install rolling staging with upper staging level at 4 feet under the overhead of each area listed in 1.2.3 and 1.2.4.

3.2.1 Equip rolling staging wheels with locking devices.

3.2.2 Relocate roller staging 2 times during the availability, when designated by the SUPERVISOR.

3.3 Platform planking shall be not less than 2 inch by 10 inch spruce, fir, long leaf pine, or equal, straight grained and free from large or loose knots, either rough or dressed, and fire retardant treated in accordance with MIL-L-19140.

3.3.1 Planking shall be secured (cleated) to preclude shifting or coming loose.

3.3.2 Staging shall be capable of sustaining a load of 300 pounds at any point or level of working surfaces.

3.3.3 Ends of tubing resting on structure and transmitting weight of staging shall terminate on framing immediately below and have 10.2 pound steel sole plate to preclude damage to structure.

3.3.4 Install safety railing around perimeters of staging platforms.

3.3.5 Install ladders securely fastened to each staging section.

3.3.6 Install staging levels beginning at 6 feet above each deck surface, at 6-foot intervals extending up to the top of each staging section.

3.3.7 Height between staging levels shall not exceed 6 feet, 6 inches.

3.3.8 Provide 20 mandays of labor and 500 dollars of material to accomplish staging modifications not previously identified in this Work Item, when directed by the SUPERVISOR. Total cost greater or less than above manday and dollar amounts when authorized will be the subject of an equitable adjustment.

3.3.8.1 Submit one legible copy, in hard copy or electronic media, of a weekly report to document labor and material expenditures to the SUPERVISOR.

3.3.9 Erect shrouds/curtains to contain all environmental pollutants generated during Ship's Force work. Shrouds/curtains shall envelope entire temporary staging.

3.3.10 Use 2.2 and 2.3 for guidance to structural arrangement.

SHIP: USS BOONE (FFG-28)

3.4 Remove staging when directed by the SUPERVISOR.

3.5 Accomplish the requirements of 009-32 of 2.1 for new and disturbed surfaces.

4. NOTES:

4.1 None.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1 LLTM:

1. None.

5.2 PUSH MATERIAL:

1. None.

5.3 KITTED MATERIAL:

1. None.